**Projet 2**

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| **Title** | New effectors of cell competition during development and cancer  |
| **Host laboratory** | Epithelial growth and cancer - IRCM |
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| **Supervisor** | Patrice LASSUS |
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| **Description (10 lines)** | In all growing epithelial tissues, the status of individuals cells regarding metabolism, growth or genetic identity is constantly checked to establish a relative fitness hierarchy. This results in competition for tissue formation favoring the strongest cells at the expense of the weakest. This conserved cellular phenomenon is known as « cell competition » and growing evidences support its central role during cancer development (clonal evolution, resistance to treatments, metastatic niche…). The project consist in the establishment of a new cell competition paradigm in cultured mammalian cells, and to investigate the role of key lipid metabolism genes in this process. |